

Tatsuya Nakano

List of Publications by Year in descending order

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31
papers

3,542
citations

331670

21
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477307

29
g-index

32
all docs

32
docs citations

32
times ranked

1374
citing authors

#	ARTICLE	IF	CITATIONS
1	Fragment molecular orbital method: an approximate computational method for large molecules. <i>Chemical Physics Letters</i> , 1999, 313, 701-706.	2.6	1,189
2	Fragment molecular orbital method: use of approximate electrostatic potential. <i>Chemical Physics Letters</i> , 2002, 351, 475-480.	2.6	395
3	Fragment molecular orbital method: application to polypeptides. <i>Chemical Physics Letters</i> , 2000, 318, 614-618.	2.6	333
4	Pair interaction molecular orbital method: an approximate computational method for molecular interactions. <i>Chemical Physics Letters</i> , 1999, 312, 319-324.	2.6	271
5	Fragment molecular orbital method: analytical energy gradients. <i>Chemical Physics Letters</i> , 2001, 336, 163-170.	2.6	197
6	Ab initio quantum mechanical study of the binding energies of human estrogen receptor α with its ligands: An application of fragment molecular orbital method. <i>Journal of Computational Chemistry</i> , 2005, 26, 1-10.	3.3	132
7	VISCANA: A Visualized Cluster Analysis of Protein-Ligand Interaction Based on the ab Initio Fragment Molecular Orbital Method for Virtual Ligand Screening. <i>Journal of Chemical Information and Modeling</i> , 2006, 46, 221-230.	5.4	127
8	Large scale FMO-MP2 calculations on a massively parallel-vector computer. <i>Chemical Physics Letters</i> , 2008, 457, 396-403.	2.6	113
9	How Does an S_N2 Reaction Take Place in Solution? Full Ab Initio MD Simulations for the Hydrolysis of the Methyl Diazonium Ion. <i>Journal of the American Chemical Society</i> , 2008, 130, 2396-2397.	13.7	71
10	Fragment molecular orbital-based molecular dynamics (FMO-MD), a quantum simulation tool for large molecular systems. <i>Computational and Theoretical Chemistry</i> , 2009, 898, 2-7.	1.5	59
11	Fragment Molecular Orbital method-based Molecular Dynamics (FMO-MD) as a simulator for chemical reactions in explicit solvation. <i>Journal of Computational Chemistry</i> , 2009, 30, 40-50.	3.3	57
12	Development of the four-body corrected fragment molecular orbital (FMO4) method. <i>Chemical Physics Letters</i> , 2012, 523, 128-133.	2.6	56
13	Acceleration of fragment molecular orbital calculations with Cholesky decomposition approach. <i>Chemical Physics Letters</i> , 2010, 490, 84-89.	2.6	51
14	Three- and four-body corrected fragment molecular orbital calculations with a novel subdividing fragmentation method applicable to structure-based drug design. <i>Journal of Molecular Graphics and Modelling</i> , 2013, 41, 31-42.	2.4	48
15	Visualization analysis of inter-fragment interaction energies of CRP-cAMP-DNA complex based on the fragment molecular orbital method. <i>Biophysical Chemistry</i> , 2007, 130, 1-9.	2.8	47
16	Incorporation of solvation effects into the fragment molecular orbital calculations with the Poisson-Boltzmann equation. <i>Chemical Physics Letters</i> , 2010, 500, 116-119.	2.6	47
17	Fragment Molecular Orbital Calculations with Implicit Solvent Based on the Poisson-Boltzmann Equation: II. Protein and Its Ligand-Binding System Studies. <i>Journal of Physical Chemistry B</i> , 2019, 123, 957-973.	2.6	46
18	DNA and Estrogen Receptor Interaction Revealed by Fragment Molecular Orbital Calculations. <i>Journal of Physical Chemistry B</i> , 2007, 111, 9621-9627.	2.6	43

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19	Application of the fragment molecular orbital method for determination of atomic charges on polypeptides. II. Towards an improvement of force fields used for classical molecular dynamics simulations. <i>Chemical Physics Letters</i> , 2009, 467, 417-423.	2.6	42
20	Application of the fragment molecular orbital method for determination of atomic charges on polypeptides. <i>Chemical Physics Letters</i> , 2007, 449, 329-335.	2.6	36
21	Developments and applications of ABINIT-MP software based on the fragment molecular orbital method. , 2006, , 39-52.		36
22	Fragment Molecular Orbital Calculations with Implicit Solvent Based on the Poisson-Boltzmann Equation: Implementation and DNA Study. <i>Journal of Physical Chemistry B</i> , 2018, 122, 4457-4471.	2.6	35
23	Does Amination of Formaldehyde Proceed Through a Zwitterionic Intermediate in Water? Fragment Molecular Orbital Molecular Dynamics Simulations by Using Constraint Dynamics. <i>Chemistry - A European Journal</i> , 2010, 16, 6430-6433.	3.3	21
24	Fragment molecular orbital (FMO) study on stabilization mechanism of neuro-oncological ventral antigen (NOVA)-RNA complex system. <i>Computational and Theoretical Chemistry</i> , 2010, 962, 45-55.	1.5	18
25	Antigen-antibody interactions of influenza virus hemagglutinin revealed by the fragment molecular orbital calculation. <i>Theoretical Chemistry Accounts</i> , 2011, 130, 1197-1202.	1.4	16
26	Accuracy of the fragment molecular orbital (FMO) calculations for DNA: Total energy, molecular orbital, and inter-fragment interaction energy. <i>Computational and Theoretical Chemistry</i> , 2014, 1034, 7-16.	2.5	16
27	The ABINIT-MP Program. , 2021, , 53-67.		10
28	How to Perform FMO Calculation in Drug Discovery. , 2021, , 93-125.		7
29	Fragmentation at sp ² carbon atoms in fragment molecular orbital method. <i>Journal of Computational Chemistry</i> , 2020, 41, 1416-1420.	3.3	4
30	Development Status of ABINIT-MP in 2020. <i>Journal of Computer Chemistry Japan</i> , 2020, 19, 142-145.	0.1	3
31	Acceleration of Environmental Electrostatic Potential Using Cholesky Decomposition with Adaptive Metric (CDAM) for Fragment Molecular Orbital (FMO) Method. <i>Bulletin of the Chemical Society of Japan</i> , 2021, 94, 91-96.	3.2	1